

IN THE CLAIMS

Please add new claim 14 which is identical to allowed claim 3 which was inadvertently canceled in the Amendment filed August 3, 2006:

Listing of Claims:

1-6. (Canceled).

7. (Previously Presented) A non-contact IC card reading/writing apparatus, comprising:

a loop antenna, which supplies both electric power and a transmission signal to a non-contact IC card by way of an electromagnetic induction effect and acquires a reception signal from the non-contact IC card by way of a load variation;

a first resonant circuit, which resonates the loop antenna at a first frequency;

a wireless transmitter, which supplies both electric power and transmission data via the first resonant circuit to the loop antenna; and

a wireless receiver, which acquires a reception signal from the loop antenna via a second resonant circuit which is connected

to the loop antenna by way of coupling capacitor and is resonated at a second frequency, wherein:

data transmitted from the non-contact IC card is demodulated from the reception signal by a demodulating circuit;

both a turn number "n1" of the first coil which constitutes the second resonant circuit and a turn number "n2" of the second coil which is coupled to the first coil by way of the mutual induction effect are selected in such a manner that said turn number "n1" is matched to an output impedance "z1" of the second resonant circuit, and the turn number "n2" is matched to an input impedance of the wireless receiver; and

both the first coil and the second coil own an impedance converting function.

8. (Previously Presented) A non-contact IC card reading/writing apparatus, comprising:

a loop antenna, which supplies both electric power and a transmission signal to a non-contact IC card by way of an electromagnetic induction effect and acquires a reception signal from the non-contact IC card by way of a load variation;

a first resonant circuit, which resonates the loop antenna at a first frequency;

a wireless transmitter, which supplies both electric power and

transmission data via the first resonant circuit to the loop antenna; and

a wireless receiver, which acquires a reception signal from the loop antenna via a second resonant circuit which is connected to the loop antenna by way of coupling capacitor and is resonated at a second frequency, wherein:

data transmitted from the non-contact IC card is demodulated from the reception signal by a demodulating circuit;

both a first capacitor "C1" and a second capacitor "C2" series-connected between one terminal and the other terminal of the second coil;

an output signal is derived from a joint point between the first capacitor C1 and the second capacitor C2; and

both the first capacitor C1 and the second capacitor C2 own an impedance converting function.

9-11. (Canceled).

12. (Previously Presented) A non-contact IC card reading/writing apparatus, comprising:

a loop antenna, which supplies both electric power and a transmission signal to a non-contact IC card by way of an

electromagnetic induction effect and acquires a reception signal from the non-contact IC card by way of a load variation;

a first resonant circuit, which resonates the loop antenna at a first frequency;

a wireless transmitter, which supplies both electric power and transmission data via the first resonant circuit to the loop antenna; and

a wireless receiver, which acquires a reception signal from the loop antenna via a second resonant circuit which is connected to the loop antenna by way of coupling capacitor and is resonated at a second frequency, wherein:

data transmitted from the non-contact IC card is demodulated from the reception signal by a demodulating circuit;

an intermediate frequency transformer is provided between the second resonant circuit and the wireless receiver; and

the ground of the second resonant circuit is separated from the ground of the wireless receiver.

13. (Canceled).

14. (New) A non-contact IC card reading/writing apparatus comprising:

a loop antenna, which supplies both electric power and a transmission signal to a non-contact IC card by way of an electromagnetic induction effect and acquires a reception signal from the non-contact IC card by way of a load variation;

a resonant circuit, which resonates the loop antenna at a desirable frequency;

a wireless transmitter, which supplies both electric power and transmission data via the resonant circuit to the loop antenna; and

a wireless receiver, which acquires a reception signal from the loop antenna via the resonant circuit, wherein:

data transmitted from the non-contact IC card is demodulated from the reception signal by a demodulating circuit;

the resonant circuit and the wireless receiver are coupled to each other via a first isolator in which the reception signal is transmitted from the antenna to the receiver; and

the resonant circuit and the wireless transmitter are coupled to each other via a second isolator in which the transmission signal is transmitted from the transmitter to the antenna.